1541 --- **Science - Basic Science**. 5-12. Complete 24 semester hours of credit in science which includes the following:

Six semester hours of credit in earth and space science which includes the following essential concepts and skills:

Understand and apply knowledge of energy in the earth system

Understand and apply knowledge of geochemical cycles

Six semester hours of credit in life science/biological science which includes the following essential concepts and skills:

Understand and apply knowledge of the cell

Understand and apply knowledge of the molecular basis of heredity

Understand and apply knowledge of the interdependence of organisms

Understand and apply knowledge of matter, energy, and organization in living systems

Understand and apply knowledge of the behavior of organisms

Six semester hours of credit in physics/physical science which includes the following essential concepts and skills:

Understand and apply knowledge of the structure of atoms

Understand and apply knowledge of the structure and properties of matter

Understand and apply knowledge of motions and forces

Understands and applies knowledge of interactions of energy and matter

Six semester hours of credit in chemistry which includes the following essential concepts and skills: Understand and apply knowledge of chemical reactions Design and conduct scientific investigations

## 6 hours in earth sciences

| Course # | Course Title | Institution | Semester Hr. | Year Completed |  |
|----------|--------------|-------------|--------------|----------------|--|
|          |              |             |              |                |  |
|          |              |             |              |                |  |
|          |              |             |              |                |  |
|          |              |             |              |                |  |
|          |              |             |              |                |  |

## 6 hours in biology

| Course # | Course Title | Institution Semester Hr. |  | Year Completed |  |
|----------|--------------|--------------------------|--|----------------|--|
|          |              |                          |  |                |  |
|          |              |                          |  |                |  |
|          |              |                          |  |                |  |
|          |              |                          |  |                |  |
|          |              |                          |  |                |  |

## 6 hours in physics/physical science

| Course # | Course Title | Institution | Semester Hr. | Year Completed |
|----------|--------------|-------------|--------------|----------------|
|          |              |             |              |                |
|          |              |             |              |                |
|          |              |             |              |                |
|          |              |             |              |                |
|          |              |             |              |                |

## 6 hours in chemistry

| Course # | Course Title | Institution | Semester Hr. | Year Completed |
|----------|--------------|-------------|--------------|----------------|
|          |              |             |              |                |
|          |              |             |              |                |
|          |              |             |              |                |
|          |              |             |              |                |
|          |              |             |              |                |

| Methods for content and level       |  |  |
|-------------------------------------|--|--|
|                                     |  |  |
|                                     |  |  |
| Graded field experience (if needed) |  |  |
|                                     |  |  |